## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/019127

A. CLASSIFICA	ATION OF SUBJECT MATTER F01N3/08, F01N3/36, F02M51/06,	F02M69/00	
	mational Patent Classification (IPC) or to both national c	lessification and IPC	
B. FIELDS SEA	antation searched (classification system followed by class	sification symbols)	
Int.Cl'	F01N3/08, F01N3/36, F02M51/00,	FOZPIOSTOS	
Jitsuyo Kokai Ji	tsuyo Shinan Koho 1971-2005 Tor	oku Jitsuyo Shinan Koho	1994-2005
Electronic data be	ase consulted during the international search (name of da	ta base and, where practicable, search to	nns used)
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.
Y	JP 2003-529012 A (Massachuset Technology), 30 September, 2003 (30.09.03), Full text; all drawings & WO 2001/014698 A1 & WO & US 2002/0194835 A1	ts Institute of	1,2,5-9 3,4
<b>Y</b>	JP 2002-61556 A (Shigeru NAGA 28 February, 2002 (28.02.02), Fig. 1 (Family: none)	•	1,2,5-9
<b>Y</b>	JP 2001-317360 A (Shigeru NAC) 16 November, 2001 (16.11.01), Fig. 5 (Family: none)	SANO),	
X Further do	ocuments are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "B" cartier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means		later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"P" document priority date	c quimeq splitued buot to the infernational ninig and but whe pure and	document member of the same patent	ramily
Date of the actu	al completion of the international search ch, 2005 (11.03.05)	Date of mailing of the international sea 29 March, 2005 (29	.03.05)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	•
Facsimile No.		Telephone No.	

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International application No.
PCT/JP2004/019127

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 2002-233733 A (Toshiba Corp.), 20 August, 2002 (20.08.02), Par. No. [0035]; Fig. 4 (Family: none)	1-9
	্রার্ক্ত ক্ষ্ণার্ক্ত ক্রার্ক্ত ক্রারক্ত ক্রার্ক্ত ক্রেক্ত ক্রার্ক্ত ক্রেক্ত ক্রার্ক্ত ক্রার্ক্ত ক্রার্ব ক্রার্ব ক্রার্ক্ত ক্রার্ক্ত ক্র	
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